

CSGI

# Center for Socio-Global Informatics

## [Cyber-Physical Systems based on Deep Understanding of Human Activities]

<http://www.csgi.iis.u-tokyo.ac.jp>

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Center for Socio-Global Informatics aims to establish and advance the emerging field of socio-global informatics on the integration of the cyber and physical worlds based on deep understanding of human activities at various levels ranging from each individual to a society.      Period of installation: April 2013 ~ March 2023

### TOYODA Lab.

Ew-503

- Web mining
- Web solutions
- Big data platform for mobility data analysis
- Large scale information visualization
- Advanced user interface



Visual analysis of information diffusion on Twitter

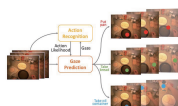


Visual analysis for assessing the risk of traffic accident

### Y. SATO Lab.

Ee-402

- Computer vision
- Human activity recognition
- Gaze sensing and analysis
- Reflectance analysis and material recognition



Understanding human attention and actions from first-person videos

### Yoshinaga Lab.

Ew-503

- Natural Language Processing
- Computational Linguistics
- Efficient Real-World Text Analysis
- Machine Translation and Dialogue



Public emotions on microblogs

### SUGANO Lab.

Ew-406

- Gaze estimation and user understanding
- Computer vision and machine learning for HCI
- Interactive image and media understanding



Gaze estimation with machine learning

### GODA Lab.

Ew-503

- Super-fast Database Systems
- Energy-efficient Database Systems
- Intelligent Storage Systems

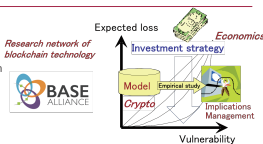


Prototype of Super-fast Database Engine

### MATSUURA Lab.

Ew-401

- Cryptography
- Cybersecurity
- Anonymous communication system
- Economics of information security



### SEZAKI Lab.

Ew-601

- Urban environment sensing
- User mobility analysis
- Wireless sensor networks
- Privacy preserving in sensing

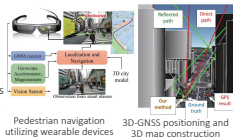


Environmental monitoring for urban and natural environment

### KAMIJO Lab.

Ew-403

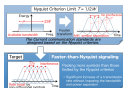
- GNSS Positioning
- 3D Map Construction
- Vehicle Self-localization
- Traffic Scene Understanding
- Intelligent Applications in Smartphones and Smart Glasses
- Customer Behavior Recognition
- V2V, V2P Communication
- Traffic Surveillance



### SUGIURA Lab.

Ew-401

- Wireless Communication Networks
- Wireless Security
- Digital Signal Processing
- Distributed Storage



Faster-than-Nyquist signaling

